

## ABSTRACT OF THE INVENTION

The present invention discloses a novel secreted polypeptide, termed Osteoprotegerin, which is a member of the tumor necrosis factor receptor superfamily and is involved in the regulation of bone metabolism. Also disclosed are nucleic acids encoding Osteoprotegerin, polypeptides, recombinant vectors and host cells for expression, antibodies which bind Osteoprotegerin, and pharmaceutical compositions. The polypeptides are used to treat bone diseases characterized by increased resorption such as osteoporosis.